

Guardians in a generation-based garbage collector

psu.edu [PDF]

RK Dybaj, C Bruggeman, D Eby - Proceedings of the ACM ..., 1993 - portal.acm.org

... Similar mechanisms can be used to free other external resources, such as temporary files and subpro- cesses. ... the data itself even after the header has been dropped. ... the invocation of other finalization t hunks, er- ror signals must be suppressed or somehow delayed until all ...

Cited by 23 - Related articles - BL Direct - All 8 versions

Exploring the barrier to entry: incremental generational garbage collection for Haskell

psu.edu [PDF]

AM Chesla, AJ Field, S Marlow, SL Jones, ... - Proceedings of the 4th ..., 2004 - portal.acm.org

... Note that there is an inherent delay between a closure be- ing entered for the first time ... There have been numerous studies on t enuring/promotion strategies, generation sizing and number [1, 10, 23, 9 ... Notice that the static data that sits above the ob- ject's entry code must carry a ...

Cited by 9 - Related articles - All 39 versions

Multitasking without compromise: a virtual machine evolution

psu.edu [PDF]

G Czajkowski, L Daynéis - ACM SIGPLAN Notices, 2001 - portal.acm.org

... task\_id\_offset, task\_id\_id [cm\_table + task\_id], tcm bmz,pt,a,tcm end\_barrier <delay slot filled ... first load fetches a unique internal task identifier from the current thread data structure (a ... the total footprint attributed to report the percentage the code cache and permanent generation ...

Cited by 120 - Related articles - BL Direct - All 13 versions

Integrating generations with advanced reference counting garbage collectors

technion.ac.il

H Azatchi, E Petrank - Compiler Construction - Springer

... Weizman [25] studied ameliorating the delay introduced by recursive deletion. ... If it is not set, a temporary replica of the object is taken and is committed by checking again if the object's dirty flag is still not set. ... This naive promotion policy fits nicely into the algorithms we use. ...

Cited by 23 - Related articles - BL Direct - All 11 versions

POF Performance Tuning: GC Friendly Java

psu.edu [PDF]

J Shen - CiteSeer

... Old Generation Object Promotion Object Allocation Track These ... Reference update tracking (write barrier) • If only old generation is incremental • No need to track updates on young objects

Page 9. ... Higher allocation rate implies more frequent GCs • Live data size ...

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Incremental, multi-area, generational, copying garbage collector for use in a virtual address space

TJ McEntee, RW Bloemer, DW Oxley, SM ... - US Patent ..., 1989 - Google Patents

... be run on larger systems.) memory processes can act on memory concurrently; In efforts to minimize the delay effects of ... If a bit is turned on, it signifies 50 page is scanned again, and a temporary list of ... 5. First, the value hi a data field cell 52 is replaced with a pointer to the virtual ...

Cited by 35 - Related articles - All 2 versions

Cache Line Boundary Allocation for Garbage Collected Systems

ncsu.edu [PDF]

PA Wagie - 2007 - lib.ncsu.edu

... Moreover, delaying reclamation of memory until garbage collection is triggered, results in a temporary increase of memory footprint. Various garbage-collection algorithms, ... employed only for the nursery objects. A bigger nursery is used to delay object promotion, so ...

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Automatic object colocation based on read barriers

psu.edu [PDF]

C Wimmer, H Mussenböck - Modular Programming Languages - Springer

... Therefore, the code is placed in a slow case [4] that collects data only for every 1000th field ... young generation, but it is only necessary if no more space is available for the promotion of young ... When the copying of a child object is delayed, the references to the child require a later ...

Cited by 8 - Related articles - BL Direct - All 11 versions

POF Hierarchical garbage collection in scalable distributed systems

psu.edu [PDF]

N Venkatasubramanian, G Agha, C Talcott - Master's thesis, University of ..., 1992 - CiteSeer

... 203 B.1.1 Variables and Data Structures : : : : 203 ... 125 x Page 11. LIST  
OF FIGURES 2.1 The Semi-space Garbage Collection Scheme : : : : 10  
2.2 Ungar's Generation Scavenging Scheme : : : : 14 ...

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### Concurrent garbage collection of persistent heaps

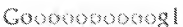

S. Nettles, J. O'Toole, D. Gifford, CARNEGIE-MELLON ... - 1993 - [csl.dtic.mil](#)

... Page 11. FUP New Old Old From To minor go gc persistent **promotion** Imulation Lol --Persistent  
Log ... The transitory heap consists of the two generational heaps present in the SML/NJ imple-  
mentation. It contains **temporary data** which will be lost in the event of a crash. ...

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delaying promotion of temporary data

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